

## II. CLAIM AMENDMENTS

1. (Currently Amended) A method for selecting a bearer service for use in communication between a mobile network and an application program that is executed in a mobile terminal ~~and a mobile network~~, the mobile terminal comprising an application execution environment for executing ~~at least one application programs~~ provided by a manufacturer of the mobile terminal or a third party manufacturers, and the mobile network providing at least one bearer service, the method comprising ~~at least the following:~~

- operating the mobile execution environment to gathering from the application program a set of requirements for a bearer service to be selected for use in communication between the application program ~~mobile terminal~~ and the mobile network;
- obtaining information about bearer services selectable in the mobile network;
- performing a comparison between said set of requirements for a bearer service and said information obtained about bearer services selectable in the mobile network in order to determine whether any of said selectable bearer services substantially fulfils said set of requirements for a bearer service; and
- ~~if said comparison indicates that at least one of said selectable bearer services substantially fulfils said set of requirements for a bearer service,~~ selecting a selectable bearer service which substantially fulfils said set of requirements for a bearer service as a bearer service for use in communication, between the application program and the mobile network.

~~wherein said step of gathering a set of requirements for a bearer service is performed by the application execution environment in the mobile terminal, said application execution environment being activated to perform said step of gathering a set of requirements for a bearer by a service request to start an application, said step of gathering a set of requirements including gathering requirements for a bearer service from the application to be started via a logical interface provided for communication between applications and the application execution environment.~~

2. - 11. (Cancelled)

12. (Previously Presented) A method according to claim 1, further comprising:

- forming a bearer service request network message in the mobile terminal on the basis of said set of requirements for a bearer service;
- sending said bearer service request network message to the mobile network;
- forming a bearer service reply network message in the mobile network on the basis of said selectable bearer services and said bearer service request network message; and
- sending said bearer service reply network message to the mobile terminal.

13. (Currently Amended) A method according to claim 76, wherein the renegotiation phase comprises at least:

- defining a new set of requirements for a bearer service to be selected for use in communication between the mobile terminalapplication program and the mobile network;

- forming a bearer service request network message in the mobile terminal on the basis of said new set of requirements;
- sending said bearer service request network message to the mobile network;
- forming a bearer service reply network message in the mobile network on the basis of said bearer service request network message and said bearer services selectable in the mobile network, comprising a suggestion for a new bearer service to be used in communication between the ~~mobile terminal~~application program and the mobile network;
- sending said bearer service reply network message to the mobile terminal ;

and performing one of the following steps in the mobile terminal:

- either accepting the suggestion for a new bearer service, if said new bearer service substantially fulfils the new set of requirements for a bearer service, whereupon communication between the ~~mobile terminal~~application program and the mobile network is continued with said new bearer service,
- or rejecting the suggestion for a new bearer service, if said new bearer service does not substantially fulfil the new set of requirements for a bearer service, whereupon communication between the ~~mobile terminal~~application program and the mobile network is terminated.

14. (Cancelled)

15. (Currently Amended) A method according to claim 84, wherein said renegotiation phase is performed when at least one condition of the mobile network has changed, said renegotiation phase comprising at least:

- forming in the mobile network a conditions-changed network message on the basis of said at least one changed condition, said conditions-changed network message comprising a suggestion for a new bearer service;
- sending said conditions-changed network message to the mobile terminal;
- examining said conditions-changed network message in the mobile terminal; and performing one of the following steps in the mobile terminal:
  - either accepting the suggestion for a new bearer service, if said new bearer service substantially fulfils said set of requirements for a bearer service, whereupon communication between ~~said mobile terminal~~the application program and ~~said~~the mobile network is continued with said new bearer service, or
  - rejecting the suggestion for a new bearer service, if said new bearer service does not substantially fulfil said set of requirements for a bearer service, whereupon communication between ~~said mobile terminal~~the application program and ~~said~~the mobile network is terminated.

16. - 19. (Cancelled)

20. (Previously amended) A method according to claim 1, wherein the user of the mobile terminal is informed of the selectable bearer services, wherein the user can perform the selection of a bearer service.

Claims 21.-41. (Withdrawn)

42. (Currently Amended) A mobile terminal for use in a communication system comprising a mobile network having at least one bearer service, the mobile terminal comprising:

- an application program that is executed in the mobile terminal; comprising
- an application execution environment for executing at least one application programs provided by a manufacturer of the mobile terminal or a third party manufacturers; and
- a logical interface for communication between application programs and the application execution environment,

wherein ~~said~~the application execution environment is arranged to gather from the application program a set of requirements for a bearer service to be selected for use in communication between the application program ~~the mobile terminal~~ and the mobile network. ~~responsive to a service request to start an application, and is further arranged to gather requirements for a bearer service from the application to be started via a logical interface provided for communication between applications and the application execution environment.~~

Claims 43.-50. (Cancelled)

51. (Currently Amended) A method according to claim 109, wherein the application programs to be started provides the execution environment with information about its bearer service requirements via said logical interface in a formatted data packet.

52. (Previously Presented) A method according to claim 1, wherein the application execution environment further gathers information about bearer service requirements from the mobile terminal via an interface between the application execution

environment and an information store comprising information about properties of the mobile terminal.

53. (Previously Presented) A method according to claim 1, wherein the application execution environment further gathers information about bearer service requirements of the mobile terminal from the mobile network.

54. (Previously Presented) A method according to claim 1, wherein the application execution environment further gathers information about bearer service requirements via an interface between the application execution environment and an information store comprising information about user preferences.

55. (Previously Presented) A method according to claim 1, wherein the application execution environment further gathers information about bearer service requirements from a user of the mobile terminal via a user interface of the mobile terminal.

56. (Previously Presented) A method according to claim 1, wherein the application execution environment further gathers user subscription information from the mobile network.

57. (Previously Presented) A method according to claim 1, wherein the application execution environment prioritises said set of requirements for a bearer service.

58. (Previously Presented) A method according to claim 1, wherein the application execution environment resolves contradictory requirements in said set of requirements for a bearer service.

59. (Previously Presented) A method according to claim 1, wherein said comparison to determine whether any of said selectable bearer services substantially fulfils said set of

requirements for a bearer service is performed in the mobile network.

60. (Previously Presented) A method according to claim 1, wherein said comparison to determine whether any of said selectable bearer services substantially fulfils said set of requirements for a bearer service is performed in the mobile terminal.

61. (Previously Presented) A method according to claim 59, wherein the subscription information of the user is examined in connection with performing said comparison.

62. (Previously Presented) A method according to claim 60, wherein the subscription information of the user is examined in connection with performing said comparison.

63. (Previously Presented) A method according to claim 59, wherein the traffic condition of the mobile network is examined in connection with performing said comparison.

64. (Previously Presented) A method according to claim 60, wherein the traffic condition of the mobile network is examined in connection with performing said comparison.

65. (Previously Presented) A method according to claim 59, wherein a capability of a remote network is examined in connection with performing said comparison.

66. (Previously Presented) A method according to claim 60, wherein a capability of a remote network is examined in connection with performing said comparison.

67. (Previously Presented) A method according to claim 12, wherein the application execution environment forms said bearer service request network message.

68. (Previously Presented) A method according to claim 12, wherein the application execution environment receives and processes said bearer service reply network message.

69. (Previously Presented) A method according to claim 12, wherein said bearer service reply network message comprises a suggestion for a bearer service to be selected for communication.

70. (Currently Amended) A method according to claim ~~12~~1, wherein the application execution environment informs ~~an~~the application program about a bearer service granted for the application program.

71. (Currently Amended) A method according to claim 70, wherein the application execution environment provides the application program with information about the granted bearer service in a formatted data packet.

72. (Previously Presented) A method according to claim 1, wherein at least one quality of service class is defined in the mobile network and at least one bearer service is defined for said at least one quality of service class.

73. (Currently Amended) A method according to claim 72, wherein a preferred quality of service class is defined for ~~an~~the application program.

74. (Currently Amended) A method according to claim 73, wherein information about said preferred quality of service class defined for ~~said~~the application program is included in said set of requirements for a bearer service and is sent to the mobile network in said bearer service request network message.

75. (Currently Amended) A method according to claim 1, wherein a renegotiation phase is performed in order to select a new bearer



service for use in communication between the mobile ~~terminal~~application program and the mobile network.

76. (Currently Amended) A method according to claim 75, wherein said renegotiation phase is initiated by one of the following: ~~an~~the application running program in the mobile terminal; a user of the mobile terminal.

77. (Currently Amended) A method according to claim 76, wherein said renegotiation phase is performed when at least one bearer service requirement of the application program has changed.

78. (Previously Presented) A method according to claim 13, wherein the application execution environment defines said new set of requirements for a bearer service.

79. (Previously Presented) A method according to claim 13, wherein the application execution environment forms said bearer service request network message.

80. (Currently Amended) A method according to claim 13, wherein the application execution environment provides the application program with information about the new bearer service.

81. (Currently Amended) A method according to claim 80, wherein the application execution environment provides the application program with information about the new bearer service in a formatted data packet.

82. (Currently Amended) A method according to claim 13, wherein the application program performs said steps of accepting or rejecting the new bearer service.

83. (Previously Presented) A method according to claim 75, wherein said renegotiation phase is performed when at least one property of the mobile terminal has changed.

84. (Previously Presented) A method according to claim 75, wherein said renegotiation phase is initiated by the mobile network.

85. (Currently Amended) A mobile terminal according to claim 42, wherein the application execution environment is arranged to receive information about bearer service requirements of ~~said~~the application ~~to be started~~program via said logical interface.

86. (Currently Amended) A mobile terminal according to claim 42, wherein the application execution environment is arranged to communicate information about a selected bearer service to ~~said~~the application ~~to be started~~program via said logical interface.

87. (Currently Amended) A mobile terminal according to claim 42, wherein the application execution environment is arranged to receive information about a change in a property of ~~said~~the application program via said logical interface.

88. (Currently Amended) A mobile terminal according to claim 42, wherein the application execution environment is arranged to communicate information about a change in a bearer service to ~~said~~the application program via said logical interface.

89. (Currently Amended) A mobile terminal according to claim 42, comprising an interface for communicating information about at least one property of the mobile terminal to ~~said~~the application execution environment.

90. (Currently Amended) A mobile terminal according to claim 89, wherein the application execution environment is arranged to receive ~~via said interface~~ information about ~~said at least one a~~ property of the mobile terminal via said interface from an information store in the mobile terminal comprising information about properties of the mobile terminal.

91. (Previously Presented) A mobile terminal according to claim 42, wherein the application execution environment is arranged to receive information about a property of the mobile terminal from the mobile network.

92. (Currently Amended) A mobile terminal according to claim 42, comprising an interface for communicating information about at least one user preference to ~~said~~the application execution environment.

93. (Currently Amended) A mobile terminal according to claim 92, wherein the application execution environment is arranged to receive ~~via said interface~~ information about ~~said~~a preference of a user via said interface from an information store comprising information about user preferences.

94. (Previously Presented) A mobile terminal according to claim 42, wherein the application execution environment is arranged to receive information about a preference of a user as input from the user via a user interface of the mobile terminal.

95. (Previously Presented) A mobile terminal according to claim 42, comprising a user interface for informing a user of selectable bearer services.

96. (Previously Presented) A mobile terminal according to claim 42, comprising a user interface for enabling a user to select a bearer service.

97. (Previously Presented) A mobile terminal according to claim 42, wherein the application execution environment is arranged to receive user subscription information from the mobile network.

98. (Previously Presented) A mobile terminal according to claim 42, wherein the application execution environment is arranged to prioritise said set of requirements for a bearer service.

99. (Previously Presented) A mobile terminal according to claim 42, wherein the application execution environment is arranged to resolve contradictory requirements in said set of requirements for a bearer service.

100. (Previously Presented) A mobile terminal according to claim 42, comprising:

- means for forming a bearer service request network message on the basis of said set of requirements for a bearer service;
- means for sending said bearer service request network message to the mobile network; and
- means for receiving a bearer service reply network message from the mobile network.

101. (Previously Presented) A mobile terminal according to claim 100, wherein the application execution environment is arranged to form said bearer service request network message.

102. (Previously Presented) A mobile terminal according to claim 100, wherein the application execution environment is arranged to receive and process said bearer service reply network message.

103. (Previously Presented) A mobile terminal according to claim 42, comprising means for obtaining information about bearer services selectable in the mobile network and means for comparing said set of requirements for a bearer service and said information obtained about bearer services selectable in the mobile network.

104. (Currently Amended) A mobile terminal according to claim 42, comprising:

- means for defining a new set of requirements for a bearer service to be selected for use in communication between the ~~mobile terminal~~application program and the mobile network;
- means for forming a bearer service request network message on the basis of the new set of requirements for a bearer service;
- means for sending said bearer service request network message to the mobile network;
- means for receiving a bearer service reply network message from the mobile network;
- means for accepting a change in bearer service, if said new bearer service substantially fulfils said set of requirements for a bearer service; and
- means for rejecting a change in bearer service, if said new bearer service does not substantially fulfil said set of requirements for a bearer service.

105. (Previously Presented) A mobile terminal according to claim 104, wherein the application execution environment is arranged to define said new set of requirements for a bearer service.

106. (Previously Presented) A mobile terminal according to claim 104, wherein the application execution environment is arranged to form said bearer service request network message.

107. (Currently Amended) A mobile terminal according to claim 104, wherein the application execution environment is arranged to provide the application program with information about the new bearer service.

108. (Currently Amended) A mobile terminal according to claim 107, wherein the application execution environment is arranged to

provide the application program with information about the new bearer service in a formatted packet.

109. (New) A method according to claim 1, wherein the application execution environment gathers information about bearer service requirements from the application program via a logical interface provided for communication between application programs and the application execution environment.

110. (New) A method according to claim 1, wherein a service request to start the application program activates the execution environment to gather said set of requirements for a bearer service from the application program.

111. (New) A mobile terminal according to claim 42, wherein the application execution environment is arranged to gather information about bearer service requirements from the application program via a logical interface provided for communication between application programs and the application execution environment.

112. (New) A mobile terminal according to claim 42, wherein the application execution environment is arranged to gather said set of requirements for a bearer service from the application program responsive to a service request to start the application program.

113. (New) A method for selecting a bearer service to be used in communication between a mobile network and an application program that is executed in a mobile terminal, the mobile terminal comprising an mobile application execution environment for executing application programs provided by a manufacturer of the mobile terminal or third party manufacturers, the method comprising operating the mobile execution environment to gather from the application program a set of requirements for the bearer

service to be used in communication between the application program and the mobile network.

114. (New) A method for selecting a bearer service to be used in communication between an application program that is executed in a mobile terminal and a mobile network, the mobile terminal comprising an application execution environment for executing application programs provided by a manufacturer of the mobile terminal or third party manufacturers, the method comprising operating the application execution environment to gather from the application program a set of requirements for the bearer service to be used in communication between the application program and the mobile network and to perform bearer service negotiation with the mobile network.

115. (New) A mobile terminal for use in a communication system comprising a mobile network, the mobile terminal including:

- an application program that is executed in the mobile terminal;
- an application execution environment for executing application programs provided by a manufacturer of the mobile terminal or third party manufacturers,

wherein the application execution environment is arranged to gather from the application program a set of requirements for a bearer service to be selected for use in communication between the application program and the mobile network and to perform bearer service negotiation with the mobile network.